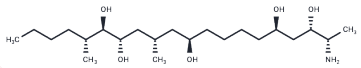
Data Sheet (Cat.No.T13729)

TargetMol

Hydrolyzed Fumonisin B1

Chemical Properties



CAS No. : 145040-09-1

Formula: C22H47NO5

Molecular Weight: 405.62

Appearance:

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	Hydrolyzed Fumonisin B1 is the backbone and the main hydrolysis product of the mycotoxin fumonisin B1 (FB1), can weakly inhibit ceramide synthase.
Targets(IC50)	Others

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4654 mL	12.3268 mL	24.6536 mL
5 mM	0.4931 mL	2.4654 mL	4.9307 mL
10 mM	0.2465 mL	1.2327 mL	2.4654 mL
50 mM	0.0493 mL	0.2465 mL	0.4931 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Collins TF, et al. Effects of aminopentol on in utero development in rats. Food Chem Toxicol. 2006 Feb;44(2):161-9.

Humpf HU, et al. Acylation of naturally occurring and synthetic 1-deoxysphinganines by ceramide synthase. Formation of N-palmitoyl-aminopentol produces a toxic metabolite of hydrolyzed fumonisin, AP1, and a new category of ceramide synthase inhibitor. J Biol Chem. 1998 Jul 24;273(30):19060-4.

Schmelz EM, et al. Induction of apoptosis by fumonisin B1 in HT29 cells is mediated by the accumulation of endogenous free sphingoid bases. Toxicol Appl Pharmacol. 1998 Feb;148(2):252-60.

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